Leistungserklärung

Identifikationsnummer: 020801030100000017148, 02080103011000000011148, 020801030120000011148, 02080103013000000011148
Version: 01

CE **ETAG-005** **13** **0836**

Leistungserklärung

Sikafloor® MTC Balkonsystem

(englisch: Sikafloor-405 Balkonsystem)

Sikafloor®-416

020801030100000017148
020801030110000011148
020801030120000011148
020801030130000011148

1. Produkttyp: Eindeutiger Kenncode des Produkttyps:	**Sikafloor® MTC Balkonsystem** (englisch: Sikafloor-405 Balkonsystem)
2. Typen-, Chargen- oder Seriennummer oder ein anderes Kennzeichen zur Identifikation des Bauprodukts gemäß Artikel 11 Absatz 4:	**Sikafloor® MTC Balkonsystem** (englisch: Sikafloor-405 Balkonsystem) Chargennummer: siehe jeweilige Verpackung
3. Verwendungszweck: Vom Hersteller vorgesehener Verwendungszweck oder vorgesehene Verwendungszwecke des Bauprodukts gemäß der anwendbaren harmonisierten technischen Spezifikation:	Das Sikafloor® MTC Balkonsystem wird als flüssig aufzubringende Abdichtung zur Verhinderung des Eindringens von Wasser in die Gebäudestruktur verwendet, in denen die grundlegenden Anforderungen gemäß Richtlinie 89/109/ECC gelten: 2 - Sicherheit im Brandfall 3 - Hygiene, Gesundheit und Umwelt 4 - Sicherheit, einschließlich Langlebigkeit
4. Name, eingetragener Handelsname oder eingetragene Marke und Kontaktanschrift des Herstellers gemäß Artikel 11 Absatz 5:	Sikafloor®-405 Balkonsystem Sika Limited Sika Liquid Plastics Sika House Miller Street Preston PR1 1EA United Kingdom
5. Kontaktanschrift: Gegebenenfalls Name und Kontaktanschrift des Bevollmächtigten, der mit den Aufgaben gemäß Artikel 12 Absatz 2 beauftragt ist:	nicht relevant (siehe Punkt 4)
6. System oder Systeme zur Bewertung und Überprüfung der Leistungsbeständigkeit des Bauprodukts gemäß Anhang V:	System 3

7. Notifizierte Stelle (hEN): Im Falle der Leistungserklärung, die ein Bauprodukt betrifft, das von einer harmonisierten Norm erfasst wird:	nicht relevant (siehe Punkt 8)
8. Notifizierte Stelle (ETA): Im Falle der Leistungserklärung, die ein Bauprodukt betrifft, für das eine Europäische Technische Bewertung ausgestellt worden ist:	Das British Board of Agrément (Nr. 0836) als Zulassungsstelle erteilte die ETA 13/0231 auf der Basis der ETAG 005-6:2000.

9. Erklärte Leistung

Wesentliche Merkmale	Leistung	Prüfnorm	Harmonisierte technische Spezifikation
Flugfeuerbeständigkeit	**B_{roof} (t1)[(1)]**	**ENV 1187**	**ETAG-005-6:2004**
Brandverhalten:	**Euroklasse E**	**EN 13501-1**	
Erwartete Nutzungsdauer (Jahre):	**W3**	**Entsprechend ETAG 005-6:2000, 4.3.3**	
Klimazonen:	**M**		
Nutzlasten:	**P4**		
Dachneigung:	**S1 – S4**		
Oberflächentemperatur min.: **max.:**	**TL3** **TL4**		
Oberflächentemperatur max.:	**TH4**		
Aussage zu gefährlichen Stoffen/Substanzen:	**nicht enthalten**	**EN 12190**	
Rutschhemmung:	**NPD**	**EN 13893**	

(1) Die Versuche wurden auf einer nicht brennbaren Calciumsilikat-Platte in einem Bereich von 0-20 ° C durchgeführt

CE

ETA 13/0231

Sika Liquid Plastics
Plant 1148

13

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ETAG-005-6:2004

Leistungserklärung

10. Erklärung

Die Leistung der Produkte (Sikafloor-405, Sikafloor-406, Sikafloor-415, Sikafloor-416) gemäß den Nummern 1 und 2 entspricht der erklärten Leistung nach Punkt 9. Verantwortlich für die Erstellung dieser Leistungserklärung ist allein der Hersteller gemäß Punkt 4.

Unterzeichnet für die Richtigkeit der Übersetzung:

Gerd Strohhäcker
Marktfeldmanger Building Solutions

Stuttgart, 01. Juni 2013

Ökologische, Gesundheits- und Sicherheitsinformationen (REACH)

Weitere Informationen und Ratschläge zur sicheren Handhabung, Aufbewahrung und Entsorgung der chemischen Produkte geben die Sicherheitsdatenblätter, die physikalische, ökologische, toxikologische und andere sicherheitsrelevante Daten enthalten. Diese sind unter www.deu.sika.com Rubrik „Dokumenten Download“ einsehbar, oder direkt bei Sika anzufordern.

Haftungsausschluss:
Die hier gemachten Angaben und jede andere Beratung beruhen auf unseren aktuellen Kenntnissen und Erfahrungen bei korrekter Lagerung, Handhabung und Verwendung unserer Produkte unter normalen Umständen und entsprechend unseren Empfehlungen. Die Angaben beziehen sich nur auf die ausdrücklich erwähnten Anwendungen und Produkte und beruhen auf Labortests, die die Praxiserprobung nicht ersetzen. Für den Fall, dass sich die Anwendungsparameter ändern, z.B. bei Abweichungen der Untergründe etc., oder bei anderweitiger Anwendung, wenden Sie sich bitte vorher an unsere Technische Beratung. Die hier angegebenen Informationen befreien den Produktanwender nicht davon, die Eignung des Produkts für die vorgesehene Anwendung und den vorgesehenen Zweck zu überprüfen. Für alle Bestellungen gelten unsere aktuellen Allgemeinen Verkaufs- und Lieferbedingungen. Produktanwender müssen sich stets auf die neueste Ausgabe des lokalen Produktedatenblatts des betreffenden Produktes beziehen, welches auf Anfrage zur Verfügung gestellt wird.

Für weitere Informationen:

Sika Deutschland GmbH
Kornwestheimer Straße 103-107
70439 Stuttgart
Stuttgart

Phone +49 (0)711 8009-0
Telefax +49 (0)711 8009-321
www.sika.de

CE ETAG 005 13 0836

DECLARATION OF PERFORMANCE

Sikafloor®-405 Balcony System

02	08	01	03	010	0	000017	1148
02	08	01	03	011	0	000001	1148
02	08	01	03	012	0	000001	1148
02	08	01	03	013	0	000001	1148

1. Product Type: Unique identification code of the product-type:	**Sikafloor®-405 Balcony System**
2. Type batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):	**Sikafloor®-405 Balcony System** (Batch no. see packaging)
3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:	**Sikafloor®-405 Balcony System is for use as a liquid-applied roof waterproofing kit to resist the passage of water to the building's internal structure, where Essential Requirements 2 Safety in case of fire, 3 Hygiene, health and the environment and 4 Safety in use of Directive 89/109/ECC, including the aspect of durability, apply.**
4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):	**Sikafloor®-405 Balcony System** **Sika Limited** **Sika Liquid Plastics** **Sika House** **Miller Street** **Preston** **PR1 1EA** **United Kingdom**
5. Contact Address: Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):	**Not Relevant (see 4)**
6. AVCP: System or systems of assessment and verification of constancy of performance (AVCP) of the construction product as set out in CPR, Annex V:	**System 3**
7. Notified body (hEN): In case of the declaration of performance (DoP)concerning a construction product covered by a harmonised standard:	**Not Relevant (see 8)**

Declaration of Performance

Declaration of Performance

8. Notified body (ETA): In case of the declaration of performance concerning a construction product for which a European Technical Assessment (ETA) has been issued:	**Approval body British Board of Agrèment (no.0836) issued an ETA-13/0231 on the basis of ETAG 005-6:2000.**

9. Declared performance

Essential characteristics	Performance	Test Standard	Harmonised technical specification
External fire performance Part 1 – 4	**$B_{Roof}(t1)$[(1)]**	**ENV 1187**	**ETAG 005-6:2000**
Reaction to fire	**Euroclass E**	**EN 13501-1**	
Categorization by working life:	**W3**	**According to ETAG 005-6:2000, 4.3.3**	
Categorization by climatic zones:	**M**		
Categorization by imposed loads: most compressible substrate: least compressible substrate	 **P4** **P4**		
Categorization by roof slope:	**S1 to S4**		
Categorization by surface Temperature **Lowest:** **Highest:**	 **TL3** **TH4**		
Statement on dangerous substances	**None contained**		
Slipperiness	**NPD**	**EN 13893**	

[(1)] The tests were carried out on a non-combustible, calcium silicate board substrate at a pitch of 0-20 °C.

10. Declaration

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.This declaration of performance (DoP) is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

R&D Manager

Technical Manager

04, 2013

Ecology, Health and Safety Information (REACH)

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety related data.

Further Information

Contact: **Sika Liquid Plastics**
Tel: +44 (0) 1772 259781
Fax:+44 (0) 1772 255670
Email: liquidplastics@uk.sika.com
www.liquidplastics.co.uk

Legal note:
This information is given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

Declaration of Performance

Sika Limited (Registered Office)
Watchmead
Welwyn Garden City
Hertfordshire
AL7 1BQ
United Kingdom
Phone +44 1707 394444
Telefax +44 1707 329129

Certificate No. EMS 588023

Certificate No. FM 588020

British Board of Agrément

Bucknalls Lane
Watford
Herts WD25 9BA

Tel: + 44 (0) 1923 665300

Fax: + 44 (0) 1923 665301

e-mail: mail@bba.star.co.uk

website: www.bbacerts.co.uk

Authorised and notified according to Article 10 of the Council Directive (89/106/EEC) of 21 December 1988 on the approximation of laws, regulations and administrative provisions of Member States relating to construction products.

BBA APPROVAL INSPECTION TESTING CERTIFICATION
TECHNICAL APPROVALS FOR CONSTRUCTION

Designated by Government to issue European Technical Approvals

Member of EOTA

European Technical Approval ETA-13/0231

Trade name:	Sikafloor 405
Holder of approval:	Sika Services AG BU Contractors Tüffenwies 16 CH-8048 Zürich Switzerland Tel: + 41 58 436 40 40 Fax: + 41 58 436 43 43 e-mail: sika@sika.ch
Generic type and use of construction product:	Liquid-applied waterproofing using kits based on polyurethane for use on roofs, terraces and balconies
Valid from: to:	23 May 2013 22 May 2018
Manufacturing plant:	Sika Liquid Plastics Sika House Miller Street Preston Lancashire PR1 1EA United Kingdom
This European Technical Approval contains:	5 pages including one Annex which forms an integral part of the document.

I LEGAL BASES AND GENERAL CONDITIONS

1 This European Technical Approval is issued by the British Board of Agrément in accordance with:

- Council Directive 89/106/EEC of 21 December 1988 [Construction Products Directive (CPD)] on the approximation of laws, regulations and administrative provisions of Member States relating to construction products[1], modified by the Council Directive 93/68/EEC of 22 July 1993[2], and Regulation (EC) No 1882/2003 of the European Parliament and the council[3]
- UK implementation of CPD Statutory Instruments 1991, No 1620. The Building and Building Construction Products Regulations 1991 — made 15 July 1991, laid before Parliament 22 July 1991, coming into force 27 December 1991, and amended by the Construction Products (Amendment) Regulations 1994 (Statutory Instruments 1994, No 3051)
- Common Procedural Rules for Requesting, Preparing and the Granting of European Technical Approvals set out in the Annex to Commission Decision 94/23/EC[4]
- Guideline for European Technical Approval of *Liquid Applied Roof Waterproofing Kits* ETAG 005, edition March 2000, Part 1 *General* and Part 6 *Specific Stipulations for Kits Based on Polyurethane*.

2 The British Board of Agrément is authorised to check whether the provisions of this European Technical Approval are met. Checking may take place in the manufacturing plant. Nevertheless, the responsibility for the conformity of the products to the European Technical Approval and for their fitness for the intended use remains with the holder of the European Technical Approval.

3 This European Technical Approval is not to be transferred to manufacturers or agents of manufacturers other than those indicated on page 1, or manufacturing plants other than those indicated on page 1 of this European Technical Approval.

4 This European Technical Approval may be withdrawn by the British Board of Agrément, in particular after information by the Commission on the basis of Article 5(1) of Council Directive 89/106/EEC.

5 Reproduction of this European Technical Approval, including transmission by electronic means, shall be in full. However, partial reproduction can be made with the written consent of the British Board of Agrément. In this case partial reproduction has to be designated as such. Texts and drawings of advertising brochures shall not contradict or misuse the European Technical Approval.

6 The European Technical Approval is issued by the approval body in its official language. This version should correspond to the version circulated within EOTA. Translations into other languages have to be designated as such.

(1) Official Journal of the European Communities No L40, 11.2.1989, p12.
(2) Official Journal of the European Communities No L220, 30.8.1993, p1.
(3) Official Journal of the European Communities No L284, 31.10.2003, p25.
(4) Official Journal of the European Communities No L17, 20.1.1994, p34.

II SPECIFIC CONDITIONS OF THE EUROPEAN TECHNICAL APPROVAL

1 Definition of product and intended use

1.1 Definition of the product

1.1.1 Sikafloor 405 is a kit consisting of a single-component, moisture-triggered polyurethane and glass-reinforcing scrim. Specific substrates require a primer to promote adhesion of the waterproofing layer. Once installed the kit forms a homogeneous waterproofing system.

The waterproofing layer shall be covered by one of the following finishing layers:

- Quartz finish — a 3 mm thick layer which consists of a mixture of Sikafloor 406 (clear polyurethane) and Sikafloor Quartz Sand KG 7 (available as Sika Kwartskorrels KG7 in the Netherlands and Sika Granulats de Quartz KG 7 in France)
- tiling — a layer of tiles adhered to the liquid-applied waterproofing system with Sika Tile Adhesive
- Deco finish — an additional coat of Sikafloor 405 applied to the waterproofing system into which Sikafloor Colour Chips Mix (also available as Sika Verfvlokkenmengsel in the Netherlands and Sika Mélange de Paillettes in France) is evenly broadcast (approximately 0.1 $kg \cdot m^{-2}$) and which is sealed with a slip control layer consisting of Sikafloor Anti-Slip Agent (also available as Sika Antislipmiddel in the Netherlands and Sika Agent Antidérapant in France) mixed on site with Sikafloor 416
- Deco + finish — an additional coat of Sikafloor 405 applied to the waterproofing system into which Sikafloor Colour Chips Mix (also available as Sika Verfvlokkenmengsel in the Netherlands and Sika Mélange de Paillettes in France) is fully broadcast (approximately 1 $kg \cdot m^{-2}$). After drying and removal of loose paint flakes, the surface is sealed with a coat of Sikafloor 416
- Solid finish — an additional coat of Sikafloor 405 over which Sikafloor Quartz Sand KG 8 (available as Sika Kwartszand KG 8 in the Netherlands and Sika Sable de Quartz KG 8 in France) is fully broadcast (approximately 3 to 4 $kg \cdot m^{-2}$). After drying and removal of loose quartz sand, the surface is sealed with a topcoat of Sikafloor 415
- timber boards
- pavers on bearing pads.

Approximate thicknesses of individual components are shown in Table 1.

Table 1 Approximate thicknesses of individual components

Component	Approximate thickness (µm)
Sikafloor 405 (reinforced with Sika Reemat Premium)	1400
Sikafloor Anti-Slip Layer	60
Deco finish	275
Deco + finish	275
Quartz finish	3000
Solid finish	500-1000

1.1.2 The kit is used to produce the specifications given in Table 2; the rates given are for smooth substrates.

Table 2 Coverage rates per layer of specification build up

Layer	Minimum coverage rates	
	$l \cdot m^{-2}$	$kg \cdot m^{-2}$
Basecoat (Sikafloor 405)	1.1	1.43
Reinforcement (Sika Reemat Premium)	n/a	n/a
Second coat (Sikafloor 405)	0.5	0.65
Finished thickness (mm)	1.4	1.4

1.2 Intended use

1.2.1 Sikafloor 405 is a liquid-applied waterproofing kit for use on balconies, terraces and roofs to resist the passage of water to the building's internal structure, where Essential Requirements 2 *Safety in the case of fire*, 3 *Hygiene, health and the environment* and 4 *Safety in use* of the Directive 89/106/EEC, including the aspect of durability, apply.

1.2.2 The kit has been assessed for use on substrates of:

- concrete and self-supporting cement-based substrates, painted and unpainted
- ceramic tiles, concrete tiles and natural stone tiles
- asphalt concrete in good condition
- Sika Levelling Coat, a two component, epoxy and cement-modified polymer layer for concrete and balcony tile surface preparation
- Sika Quick Hardening Screed, a fast curing mortar for balcony and terrace surface preparation (also available as Sika Sneluithardende Terrasmortel in the Netherlands or Sika Mortier Pour Terrasses à Durcissement Rapide in France).

The Manufacturer's Technical Dossier (MTD) provides information on pre-treatment for these substrates and whether or not they require a primer.

1.3 Intended working life

The provisions made in this ETA are based on an assumed working life of 25 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be used as a means for selecting the appropriate product in relation to the expected economically reasonable working life of the works.

2 Characteristics of product and methods of verification

2.1 Characteristics of product

2.1.1 The installed systems produced from the kit (given in Part II, clause 1.1.1) have the characteristics listed in Annex 1.

2.1.2 The characteristic values and respective tolerances for the components of the kit are stated in the MTD to this ETA.

2.1.3 Details of the chemical composition of the components of the kit and the manufacturing and quality control procedures are held by the British Board of Agrément.

2.1.4 The ETA is issued for the kit on the basis of the product composition held by the British Board of Agrément. Changes to the components of the kit or in the production process of the components which could result in the details held by the British Board of Agrément being wrong, should be notified to the British Board of Agrément before the changes are introduced. The British Board of Agrément will decide whether the changes affect the ETA, and consequently the validity of the CE marking, and whether further assessment and alterations to the ETA are required.

2.2 Methods of verification

2.2.1 Assessment of the fitness for intended use of the kit with regard to the Essential Requirements 2, 3 and 4 was carried out in accordance with the *Guideline for European Technical Approval of Liquid Applied Roof Waterproofing Kits* ETAG 005, edition March 2000, Part 1 *General* and Part 6 *Specific Stipulations for Kits Based on Polyurethane*.

2.2.2 According to the manufacturer's declaration, Sikafloor 405 does not contain any of the dangerous substances listed in the EU database.

2.2.3 Within the scope of this approval, there may be other requirements applicable to dangerous substances resulting from transposed European legislation or applicable national regulations and administrative provisions. Such requirements must be met.

3 Evaluation of Conformity and CE marking

3.1 Attestation of Conformity system

The system of Attestation of Conformity applied to this kit shall be that laid down in the CPD, Annex III, 2(ii) (referred to as System 3).

3.2 Responsibilities

3.2.1 Tasks for the manufacturer

3.2.1.1 Factory production control

The manufacturer shall set up production control at its factory and perform regular inspection and controls according to the prescribed test plan[5].

The manufacturer may only use the initial materials stated in the MTD. They shall inspect or control the raw materials on acceptance according to the prescribed test plan.

The results of factory production control are recorded and evaluated. The records include at least:

- designation of the material
- type of control or testing
- date of manufacture of the product and date of testing
- result of control or testing and, if appropriate, comparison with requirements
- signature of person responsible for factory production control.

The records shall be kept for at least five years. On request they shall be presented to the British Board of Agrément.

Details concerning extent, type and frequency of tests or inspections to be performed within the scope of the factory production control shall correspond to the prescribed test plan that is part of the MTD to this ETA.

(5) The test plan is deposited with the British Board of Agrément and contains the required information on the factory production control.

3.2.2 Tasks for approved bodies

3.2.2.1 Initial type-testing of the product

For initial type-testing, the results of the tests performed as part of the assessment for the European Technical Approval shall be used unless there are changes in the manufacturing procedure that will affect the properties. In such cases, the necessary type-testing has to be agreed between the British Board of Agrément and the approved body involved.

3.3 CE marking

The CE marking shall be affixed to each component of the kit. The CE symbol shall be accompanied by the following information:

- identification of the product
- name and address or identification mark of the manufacturer
- the last two digits of the year in which the CE marking was affixed
- number of the European Technical Approval
- statement on dangerous substances
- class of external fire performance
- reaction to fire class (Euroclass E).

4 Assumptions under which the fitness of the product for the intended use was favourably assessed

4.1 Manufacture

The components of the kit are factory made in accordance with the procedure laid down in the MTD.

4.2 Design

The fitness for the respective use for the levels of performance stated in Annex 1 results from national requirements, and previous use of the kit.

The manufacturer has stated in the MTD the quantities required to produce the specified thicknesses of the four waterproofing layers (see section 1.1).

4.3 Installation

The fitness for use of the roof waterproofing can be assumed only if the installation is carried out in accordance with the manufacturer's instructions as stated in the MTD, in particular taking into account the following points:

- installation by trained and approved personnel
- substrates must be free of contamination, visibly dry, sound and free from loose materials
- only marked components of the kit must be used
- it must be ensured that the thickness of the waterproofing is at least the nominal thickness
- installation should only be carried out during suitable weather conditions
- the substrate should be primed, if required, with the correct primer
- any points of weakness in the substrate should be reinforced prior to installation of the waterproofing layer.

The instructions for method of repair and handling of waste products shall be followed.

4.4 Responsibility of the manufacturer

It is the manufacturer's responsibility to make sure that all those who use the kit are appropriately informed of the specific conditions in sections 1, 2, 4 and 5 including the annexes to this ETA.

5 Information from the manufacturer

5.1 Information on packaging, transportation and storage

Information on packaging, transportation and storage is given in the MTD.

5.2 Information on use, maintenance and repair

Information on use, maintenance and repair is given in the MTD.

BBA APPROVAL INSPECTION TESTING CERTIFICATION
TECHNICAL APPROVALS FOR CONSTRUCTION

On behalf of the British Board of Agrément

Date of First issue: 23 May 2013

Simon Wroe
Head of Approvals — Materials

Claire Curtis-Thomas
Chief Executive

ANNEX 1 SIKAFLOOR 405

This annex applies to the Sikafloor 405 kit described in the main body of this ETA.

The substrates applicable to this kit are defined in the main body of this ETA.

Water vapour resistance factor (μ) — 2500.

Resistance to wind loads — >50 kPa.

The categorisation of levels of performance in accordance with ETAG 005 is given in Table 1 to this Annex.

Table 1 Levels of performance

Characteristic	Level of performance
External fire performance	$B_{ROOF}(t1)$[1]
Reaction to fire	Euroclass E
Categorisation by working life	W3
Categorisation by climatic zones	M
Categorisation by imposed loads: all substrates	P4
Categorisation by roof slope	S1 to S4
Categorisation by surface temperature: lowest highest	TL3 TH3
Statement on dangerous substances	None contained
Slipperiness [slope (°)/friction coefficient]	NPD

(1) The tests were carried out on a non-combustible calcium silicate board at roof pitches ranging from 0 – 20°.

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